

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application

Inventor(s): Shek Fai Lau et al.
Appl. No.: Divisional of 10/642,927
Filed: September 12, 2003
Title: Ion Emitting Air-Conditioning Devices with Electrode
Cleaning Features

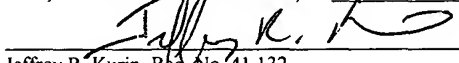
PATENT APPLICATION

Art Unit: Unknown
Examiner: Unknown

Customer No. 23910

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8

I hereby certify that this correspondence is being deposited in the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450, on September 12, 2003.



Jeffrey R. Kurin, Reg. No. 41,132 (Attorney Signature)
Signature Date: September 12, 2003

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.56

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Dear Sir:

It is requested that the information identified in this statement be considered by the Examiner and made of record in the above-identified application. This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56. If this is a continuation, divisional or continuation-in-part application, it is understood that the Examiner will consider all information which was considered by the Office in a parent application. MPEP §609. Such information therefore is not listed herein unless it is desired that the information be printed on a patent issuing from the subject application.

Enclosed with this statement are the following:

- X Form PTO-1449. The Examiner is requested to initial the form and return it to the undersigned in accordance with M.P.E.P. §609.
- X The present application is being/was filed after June 30, 2003. In accordance with the pre-Official Gazette waiver of 37 CFR 1.98 (a)(2)(i) posted at pac/dapp/opla/preognotice/idswouscopies.htm, copies of cited U.S. patents and publications are not enclosed. Additionally, all cited foreign patent documents and non-patent literature are not enclosed because they were previously submitted in an Information Disclosure Statement by applicant in a parent application (see legend at end of Form PTO-1449), from which benefit under 35 U.S.C. §120 is claimed, which Information Disclosure Statement complies with the September 8, 2000 or subsequent revision of 37 C.F.R. §1.98(a-c), as allowed under 37 C.F.R. §1.98(d)(1).
- ___ A copy of each cited document as required by 37 C.F.R. §1.98 is enclosed.
- ___ A copy of each cited document as required by 37 C.F.R. §1.98 is enclosed, except for those items designated by an asterisk (*), which were previously submitted by the applicant in a parent application, from which benefit under 35 U.S.C. §120 is claimed, with an Information Disclosure

Statement submitted in the parent application which complies with the September 8, 2000 or subsequent revision of 37 C.F.R. §1.98(a-c), as allowed under 37 C.F.R. §1.98(d)(1).

— If any of the cited/submitted documents is in a foreign language, a concise explanation of relevance is provided pursuant to 37 C.F.R. §1.98(a)(3)(i). For foreign language documents cited in a search report by a foreign patent office, the requirement for a concise explanation of relevance is satisfied by the submission herewith of an English language version of the search report. MPEP §609A(3). If a written English-language translation of a non-English language document, or portion thereof, is within the possession, custody or control of, or is readily available to any individual designated in §1.56(c), a copy of the translation accompanies this statement, 37 C.F.R. §1.98(a)(3)(ii), and satisfies the requirement for a concise explanation of relevance, MPEP §609A(3).

— **PTA Statement under 37 C.F.R. §1.704(d).** Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of the information disclosure statement.

This statement should be considered because:

X **37 C.F.R. §1.97(b).** This statement qualifies under 37 C.F.R. §1.97, subsection (b) because:

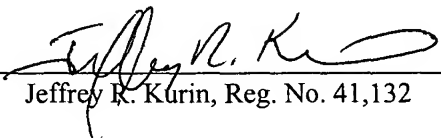
- (1) It is being filed within three months of the filing date of an application other than a continued prosecution application under § 1.53(d);
-- OR --
- (2) It is being filed within 3 months of entry of a national stage;
-- OR --
- (3) It is being filed before the mailing date of the first Office Action on the merits,
-- OR --
- (4) It is being filed before the mailing date of the first Office Action after the filing of a Request for Continued Examination under 37 C.F.R. §1.114.

X **Fee Authorization.** The Commissioner is hereby authorized to charge underpayment of any additional fees or credit any overpayment associated with this communication to Deposit Account No. 06-1325.

Respectfully submitted,

Date: September 12, 2003

By: _____


Jeffrey R. Kurin, Reg. No. 41,132

Fliesler Dubb Meyer & Lovejoy LLP
Four Embarcadero Center, Fourth Floor
San Francisco, California 94111-4156
415/362-3800 Telephone

FORM PTO-1449 (Substitute)	US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Attorney Docket Number	Serial No.
		SHPR-01361USE	Division of 10/642,927
		Applicant	
INFORMATION DISCLOSURE CITATION BY APPLICANT		Shek Fai Lau et al.	
		Filing Date	Group Art Unit
		September 12, 2003	Unknown

U.S. PATENTS							
Examiner Initial		Patent Number	Issue Date	Name	Class	Subclass	Filing Date
	1.	1,791,338 A	2/3/1931	Wintermute			4/12/1927
	2.	1,869,335 A	7/26/1932	Day			12/13/1926
	3.	2,327,588 A	8/24/1943	Bennett			6/1/1940
	4.	2,359,057 A	9/26/1944	Skinner			2/28/1942
	5.	2,509,548 A	5/30/1950	White			5/27/1948
	6.	2,949,550 A	8/16/1960	Brown			7/3/1957
	7.	3,018,394 A	1/23/1962	Brown			7/3/1957
	8.	3,026,964 A	3/27/1962	Penney			5/6/1959
	9.	3,518,462 A	6/30/1970	Brown			8/21/1967
	10.	3,581,470 A	6/1/1971	Aitkenhead et al.			12/30/1969
	11.	3,638,058 A	1/25/1972	Fritzius			6/8/1970
	12.	3,744,216 A	7/10/1973	Halloran			8/7/1970
	13.	3,981,695 A	9/21/1976	Fuchs			11/2/1973
	14.	3,984,215 A	10/5/1976	Zucker			1/8/1975
	15.	4,052,177 A	10/4/1977	Kide			3/1/1976
	16.	4,092,134 A	5/30/1978	Kikuchi			6/3/1976
	17.	4,138,233 A	2/6/1979	Masuda			6/16/1977
	18.	4,209,306 A	6/24/1980	Feldman et al.			11/13/1978
	19.	4,227,894 A	10/14/1980	Proynoff			10/10/1978
	20.	4,231,766 A	11/4/1980	Spurgin			12/11/1978
	21.	4,232,355 A	11/4/1980	Finger et al.			1/8/1979
	22.	4,244,710 A	1/13/1981	Burger			5/9/1978
	23.	4,244,712 A	1/13/1981	Tongret			3/5/1979
	24.	4,253,852 A	3/3/1981	Adams			11/8/1979
	25.	4,259,452 A	3/31/1981	Yukuta et al.			5/15/1979
	26.	4,266,948 A	5/12/1981	Teague et al.			1/4/1980
	27.	4,282,014 A	8/4/1981	Winkler et al.			5/21/1979
	28.	4,284,420 A	8/18/1981	Borysiak			8/27/1979

FORM PTO-1449 (Substitute)	US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Attorney Docket Number	Serial No.
		SHPR-01361USE	Division of 10/642,927
		Applicant	
INFORMATION DISCLOSURE CITATION BY APPLICANT		Shek Fai Lau et al.	
		Filing Date	Group Art Unit
		September 12, 2003	Unknown

29.	4,318,718 A	3/9/1982	Utsumi et al.		7/14/1980
30.	4,342,571 A	8/3/1982	Hayashi		6/14/1978
31.	4,357,150 A	11/2/1982	Masuda et al.		2/5/1981
32.	4,386,395 A	5/31/1983	Francis, Jr.		12/19/1980
33.	4,413,225 A	11/1/1983	Donig et al.		7/17/1981
34.	4,445,911 A	5/1/1984	Lind		12/15/1981
35.	4,477,263 A	10/16/1984	Shaver et al.		6/28/1982
36.	4,496,375 A	11/29/1985	Le Vantine		6/14/1983
37.	4,502,002 A	2/26/1985	Ando		9/2/1982
38.	4,509,958 A	4/9/1985	Masuda et al.		10/8/1982
39.	4,516,991 A	5/14/1985	Kawashima		4/25/1982
40.	4,536,698 A	8/20/1985	Shevalenko et al.		8/25/1983
41.	4,587,475 A	5/6/1986	Finney, Jr. et al.		7/25/1983
42.	4,600,411 A	7/15/1986	Santamaria		4/6/1984
43.	4,601,733 A	7/22/1986	Ordines et al.		9/27/1984
44.	4,626,261 A	12/2/1986	Jorgensen		12/12/1985
45.	4,643,745 A	2/17/1987	Sakakibara et al.		12/17/1984
46.	4,659,342 A	4/21/1987	Lind		4/30/1984
47.	4,674,003 A	6/16/1987	Zylka		4/3/1985
48.	4,686,370 A	6/11/1987	Blach		2/13/1985
49.	4,689,056 A	8/25/1987	Noguchi et al.		8/29/1986
50.	4,694,376 A	9/15/1987	Gessler		9/26/1985
51.	4,713,093 A	12/15/1987	Hansson		7/8/1986
52.	4,713,724 A	12/15/1987	Voelkel		6/30/1986
53.	4,726,812 A	2/23/1988	Hirth		3/26/1987
54.	4,726,814 A	2/23/1988	Weitman		6/27/1986
55.	4,772,297 A	9/20/1988	Anzai		8/19/1986
56.	4,779,182 A	10/18/1988	Mickal et al.		6/24/1986
57.	4,781,736 A	11/1/1988	Cheney et al.		11/20/1986
58.	4,786,844 A	11/22/1998	Farrell et al.		3/30/1987

FORM PTO-1449 (Substitute)	US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Attorney Docket Number	Serial No.	
			SHPR-01361USE		Division of 10/642,927
			Applicant		Shek Fai Lau et al.
INFORMATION DISCLOSURE CITATION BY APPLICANT			Filing Date	Group Art Unit	
			September 12, 2003	Unknown	

59.	4,789,801 A	12/6/1988	Lee		4/3/1987
60.	4,808,200 A	2/28/1989	Dallhammer et al.		11/12/1987
61.	4,811,159 A	3/7/1989	Foster, Jr.		3/1/1988
62.	4,940,470 A	7/10/1990	Jaisinghani et al.		3/23/1988
63.	4,941,068 A	7/10/1990	Hofmann		8/1/1988
64.	5,010,869 A	4/30/1991	Lee		8/11/1989
65.	5,024,685 A	6/18/1991	Torok et al.		6/30/1988
66.	Re. 33,927	5/19/1992	Fuzimura		9/15/1989
67.	5,141,529 A	8/25/1992	Oakley et al.		6/28/1990
68.	5,183,480 A	2/2/1993	Rateman et al.		10/28/1991
69.	5,196,171 A	3/23/1993	Peltier		3/11/1991
70.	5,215,558 A	6/1/1993	Moon		6/11/1991
71.	5,217,504 A	6/8/1993	Johansson		3/20/1990
72.	5,296,019 A	3/22/1994	Oakley et al.		8/24/1992
73.	5,302,190 A	4/12/1994	Williams		6/8/1992
74.	5,315,838 A	5/31/1994	Thompson		8/16/1993
75.	5,316,741 A	5/31/1994	Sewell et al.		5/30/1991
76.	5,378,978 A	1/3/1995	Gallo et al.		4/2/1993
77.	5,437,713 A	8/1/1995	Chang		12/1/1994
78.	5,484,472 A	1/16/1996	Weinberg		2/6/1995
79.	5,484,472 C1	2/20/2001	Weinberg		2/6/1995
80.	5,535,089 A	7/9/1996	Ford et al.		10/17/1994
81.	5,578,112 A	11/26/1996	Krause		6/1/1995
82.	5,601,636 A	2/11/1997	Glucksman		5/30/1995
83.	5,656,063 A	8/12/1997	Hsu		1/29/1996
84.	5,667,564 A	9/16/1997	Weinberg		8/14/1996
85.	5,669,963 A	9/23/1997	Horton et al.		12/26/1995
86.	5,698,164 A	12/16/1997	Kishioka et al.		3/30/1995
87.	5,702,507 A	12/30/1997	Wang		9/17/1996
88.	5,779,769 A	7/14/1998	Jiang		10/24/1995

FORM PTO-1449 (Substitute)	US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Attorney Docket Number	Serial No.	
		SHPR-01361USE		Division of 10/642,927
		Applicant		Shek Fai Lau et al.
INFORMATION DISCLOSURE CITATION BY APPLICANT		Filing Date	Group Art Unit	
		September 12, 2003	Unknown	

	89.	5,814,135 A	9/29/1998	Weinberg			9/15/1997
	90.	5,879,435 A	3/9/1999	Satyapal et al.			1/6/1997
	91.	5,893,977 A	4/13/1999	Pucci			5/12/1997
	92.	5,911,957 A	6/15/1999	Khatchatrian et al.			10/23/1997
	93.	5,972,076 A	10/26/1999	Nichols et al.			9/28/1998
	94.	5,975,090 A	11/2/1999	Taylor et al.			9/29/1988
	95.	5,997,619 A	12/7/1999	Knuth et al.			7/10/1998
	96.	6,019,815 A	2/1/2000	Satyapal et al.			9/11/1998
	97.	6,042,637 A	3/28/2000	Weinberg			9/28/1998
	98.	6,063,168 A	5/16/2000	Nichols et al.			8/11/1997
	99.	6,086,657 A	7/11/2000	Freije			2/16/1999
	100.	6,118,645 A	9/12/2000	Partridge			4/6/1995
	101.	6,126,722 A	10/3/2000	Mitchell et al.			7/28/1998
	102.	6,126,727 A	10/3/2000	Lo			1/28/1999
	103.	6,149,717 A	11/21/2000	Satyapal et al.			12/22/1998
	104.	6,149,815 A	11/21/2000	Sauter			11/23/1999
	105.	6,152,146 A	11/28/2000	Taylor et al.			6/25/1999
	106.	6,163,098 A	12/19/2000	Taylor et al.			1/14/1999
	107.	6,176,977 B1	1/23/2001	Taylor et al.			11/5/1998
	108.	6,182,461 B1	2/6/2001	Washburn et al.			7/16/1999
	109.	6,182,671 B1	6/6/2001	Taylor et al.			10/8/1999
	110.	6,193,852 B1	2/27/2001	Caracciolo et al.			5/28/1997
	111.	6,212,883 B1	4/10/2001	Kang			3/3/2000
	112.	6,228,149 B1	5/8/2001	Alenichev et al.			1/20/1999
	113.	6,252,012 B1	6/26/2001	Egitto et al.			8/30/1999
	114.	6,270,733 B1	8/7/2001	Rodden			2/17/2000
	115.	6,277,248 B1	8/21/2001	Ishioka et al.			1/5/2000
	116.	6,282,106 B2	8/28/2001	Grass			12/20/2000
	117.	D449,097 S	10/9/2001	Smith et al.			5/1/2000
	118.	6,302,944 B1	10/16/2001	Hoenig			4/18/2000

FORM PTO-1449 (Substitute)	US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Attorney Docket Number	Serial No.	
		SHPR-01361USE		Division of 10/642,927
		Applicant		Shek Fai Lau et al.
INFORMATION DISCLOSURE CITATION BY APPLICANT		Filing Date	Group Art Unit	
		September 12, 2003	Unknown	

	119.	D449,679 S	10/23/2001	Smith et al.			5/1/2000
	120.	6,309,514 B1	10/30/2001	Conrad et al.			11/7/1994
	121.	6,312,507 B1	11/6/2001	Taylor et al.			2/12/1999
	122.	6,315,821 B1	11/13/2001	Pillion et al.			1/11/2001
	123.	6,328,791 B1	12/11/2001	Pillion et al.			5/3/2000
	124.	6,348,103 B1	2/19/2002	Ahlborn et al.			4/3/1999
	125.	6,350,417 B1	2/26/2002	Lau et al.			5/4/2000
	126.	6,362,604 B1	3/26/2002	Cravey			9/28/1999
	127.	6,372,097 B1	4/16/2002	Chen			4/14/2000
	128.	6,373,723 B1	4/16/2002	Wallgren et al.			6/18/1999
	129.	6,379,427 B1	4/30/2002	Siess			12/6/1999
	130.	6,391,259 B1	5/21/2002	Malkin et al.			6/26/1997
	131.	6,447,587 B1	9/10/2002	Pillion et al.			12/6/2001
	132.	6,451,266 B1	9/17/2002	Lau et al.			9/25/2000
	133.	6,464,754 B1	10/15/2002	Ford			2/29/2000
	134.	6,471,753 B1	10/29/2002	Ahn et al.			10/29/2002
	135.	6,504,308 B1	1/7/2003	Krichtafovitch et al.			10/14/1999
	136.	6,544,485 B1	4/8/2003	Taylor			1/29/2001
	137.	6,585,935 B1	7/1/2003	Taylor et al.			11/20/1998
	138.	6,688,434 B1	7/8/2003	Taylor et al.			7/2/2002

U.S. PATENT PUBLICATIONS

Examiner Initial		Patent Application Publication Number	Publication Date	Applicant
	139.	2001/0004046 A1	6/21/2001	Taylor et al.
	140.	2001/0048906 A1	12/6/2001	Lau et al.
	141.	2002/0069760 A1	6/13/2002	Pruette et al.
	142.	2002/0079212 A1	6/27/2002	Taylor et al.
	143.	2002/0098131 A1	7/25/2002	Taylor et al.
	144.	2002/0100488 A1	12/19/2000	Taylor et al.
	145.	2002/0122751 A1	9/5/2002	Sinaiko et al.

**INFORMATION DISCLOSURE CITATION
BY APPLICANT**

Applicant

Shek Fai Lau et al.

Filing Date

September 12, 2003

Group Art Unit

Unknown

	146.	2002/0122752 A1	9/5/2002	Taylor et al.
	147.	2002/0127156 A1	9/12/2002	Taylor
	148.	2002/0134664 A1	9/26/2002	Taylor et al.
	149.	2002/0134665 A1	9/26/2002	Taylor et al.
	150.	2002/0141914 A1	10/3/2002	Taylor et al.
	151.	2002/0144601 A1	10/10/2002	Palestro et al.
	152.	2002/0146356 A1	10/10/2002	Sinaiko et al.
	153.	2002/0150520 A1	10/17/2002	Taylor et al.
	154.	2002/0152890 A1	10/24/2002	Leiser
	155.	2002/0155041 A1	10/24/2002	McKinney, Jr. et al.
	156.	2002/0170435 A1	11/21/2002	Joannou
	157.	2003/0005824 A1	1/9/2003	Katou et al.
	158.			
	159.			

PENDING U.S. PATENT APPLICATIONS

Examiner Initial		Application Number	Filing Date	Inventor	Petition to Expunge	
					Yes	No
	160.	09/669,253	9/25/2000	Taylor et al.		X
	161.	09/924,600	8/8/2001	Taylor et al.		X
	162.	10/074,096	2/12/2002	Taylor et al.		X
	163.	10/074,347	2/12/2002	Taylor et al.		X
	164.	10/074,379	2/12/2002	Taylor et al.		X
	165.	10/278,193	10/21/2002	Reeves		X
	166.	10/405,193	4/1/2003	Taylor		X

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Publication Date	Country	Translation	
					Yes	No
	167.	EP 0433152 A1	12/10/1990	Europe		✓
	168.	WO00/10713 A1	3/2/2000	International	✓	
	169.	WO 01/47803 A1	7/5/2001	International	✓	
	170.	WO 01/48781 A1	7/5/2001	International	✓	

FORM PTO-1449 (Substitute)	US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Attorney Docket Number	Serial No.	
			SHPR-01361USE		Division of 10/642,927
			Applicant		Shek Fai Lau et al.
INFORMATION DISCLOSURE CITATION BY APPLICANT			Filing Date	Group Art Unit	
			September 12, 2003	Unknown	

	171.	WO01/64349 A1	9/7/2001	International	✓	
	172.	WO01/85348 A2	11/15/2001	International	✓	
	173.	WO02/20162 A2	3/14/2002	International	✓	
	174.	WO02/20163 A2	3/14/2002	International	✓	
	175.	WO02/30574 A1	4/18/2002	International	✓	
	176.	WO02/32578 A1	4/25/2002	International	✓	
	177.	WO02/42003 A1	5/30/2002	International	✓	
	178.	WO02/066167 A1	8/29/2002	International	✓	
	179.	FR 2690509	10/29/1993	France		✓
	180.	JP 10137007	5/26/1998	Japan		✓
	181.	JP 11104223	4/20/1999	Japan		✓
	182.	JP 2000236914	9/5/2000	Japan		✓

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	183.	"Zenion Elf Device," drawing, prior art.
	184.	Electrical schematic and promotional material available from Zenion Industries, 7 pages, August 1990.
	185.	Promotional material available from Zenion Industries for the Plasma-Pure 100/200/300, 2 pages, August 1990.
	186.	Promotional material available from Zenion Industries for the Plasma-Tron, 2 pages, August 1990.
	187.	LENTEK Silā™ Plug-In Air Purifier/Deodorizer product box copyrighted 1999, 13 pages.

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if references considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

+Copies not submitted because they were submitted in prior application SN 10/642,927, filed August 18, 2003, and relied upon under 35 USC §120.